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What could fire safety science want from biomass combustion?

Anne S. Dederichs



Fire safety science relates to a variety of fields ranging from human behavior during evacuation over jurisdiction to biomass combustion, as fire is the uncontrolled combustion of biomass materials. The main concern of fire safety science is saving lives. In 2006 there were 510 fire deaths in Germany. Two-third of the mortalities in fires, and the death of about 6000 people yearly worldwide are caused by toxic emissions, such as carbon monoxide. It is crucial to evacuate people from buildings in time. Prediction of the release of toxic species during the process is of high interest. This talk will address conditions at which relevant toxic compounds are generated during the entire process from pyrolysis to combustion. A background will be given on how the combustion currently is treated in fire safety science. Questions to the biomass combustion community will be raised.